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THE  
HARVARD SCHOOL OF  
PUBLIC HEALTH

55 SHATTUCK STREET, BOSTON, MASS.

INCLUDING  
COURSES OF INSTRUCTION  
FOR 1943-44



PUBLISHED BY HARVARD UNIVERSITY

## OFFICIAL REGISTER OF HARVARD UNIVERSITY

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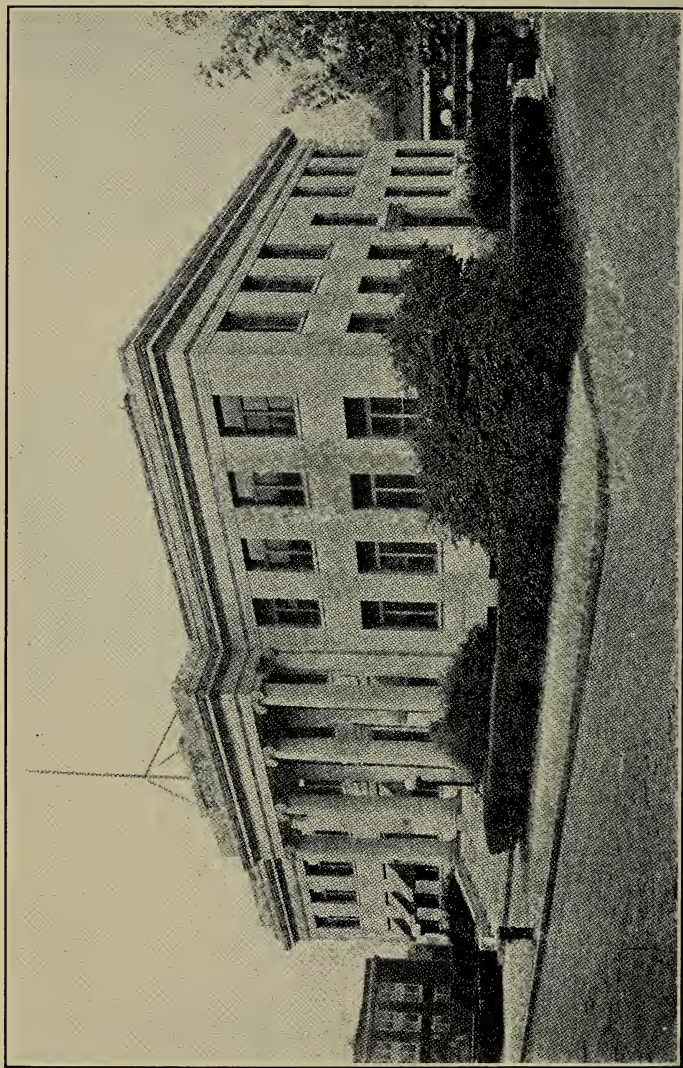
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These publications include the reports of the president and of the treasurer; the general catalogue issue; the announcements of the College and the several professional schools of the University; the courses of instruction; the pamphlets of the several departments; and the like.

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HARVARD SCHOOL OF PUBLIC HEALTH

ANNOUNCEMENT  
OF THE  
HARVARD SCHOOL OF  
PUBLIC HEALTH

55 SHATTUCK STREET, BOSTON, MASS.

OF  
HARVARD UNIVERSITY



1943

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## CALENDAR

*Owing to the war emergency, the following calendar is subject to change.*

### 1943

<i>Oct. 29, Friday.</i>	Registration of students.
<i>Nov. 1, Monday.</i>	Academic Year Begins.
<i>Nov. 11, Thursday.</i>	Armistice Day: a holiday.
<i>Nov. 25, Thursday.</i>	Thanksgiving Day: a holiday.

RECESS FROM DECEMBER 19 TO DECEMBER 26, 1943, INCLUSIVE

### 1944

<i>Jan. 1, Saturday.</i>	New Year's Day: a holiday.
<i>Feb. 22, Tuesday.</i>	Washington's Birthday: a holiday.
<i>Feb. 23, Wednesday.</i>	Mid-year examinations begin.

RECESS FROM FEBRUARY 27 TO MARCH 5, 1944, INCLUSIVE

<i>Mar. 6, Monday.</i>	Second Half-Year Begins.
<i>April 19, Wednesday.</i>	Patriots' Day: a holiday.
<i>May 30, Tuesday.</i>	Memorial Day: a holiday.
<i>June 19, Monday.</i>	Final examinations begin.
<i>June 24, Saturday.</i>	Academic Year Ends.
	COMMENCEMENT. Date to be announced.

The academic year is divided into the following periods:

<i>Mon. Nov. 1-Sat. Nov. 27</i>	First Month
<i>Mon. Nov. 29-Sat. Jan. 1</i>	Second Month <sup>1</sup>
<i>Mon. Jan. 3-Sat. Jan. 29</i>	Third Month
<i>Mon. Jan. 31-Sat. Feb. 26</i>	Fourth Month <sup>2</sup>
<i>Mon. Mar. 6-Sat. April 1</i>	Fifth Month
<i>Mon. April 3-Sat. April 29</i>	Sixth Month
<i>Mon. May 1-Sat. May 27</i>	Seventh Month
<i>Mon. May 29-Sat. June 24</i>	Eighth Month

<sup>1</sup> Recess from December 19 to December 26, 1943, inclusive.

<sup>2</sup> Recess from February 27 to March 5, 1944, inclusive.



## THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE

---

This Board is commonly known as the CORPORATION

---

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JAMES BRYANT CONANT, A.B., Ph.D., LL.D., S.D., L.H.D.,  
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522 Fifth Ave., New York, N. Y.

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### SECRETARY TO THE CORPORATION

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25 Massachusetts Hall, Cambridge



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The PRESIDENT and the TREASURER of the University, *ex officio*, and the following persons by election: —

### 1944

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% Miss Helen Boyd, House Office Bldg., Washington, D. C.

HENRY PARKMAN, JR., A.M. 82 Devonshire St., Boston

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University of Wisconsin, Madison, Wis.

### 1945

JOHN LORD O'BRIAN, A.B., LL.B., LL.D.  
No. 5517, Social Security Bldg., Washington, D. C.

DAVID CHEEVER, A.B., M.D. 193 Marlborough St., Boston

ROBERT WOODS BLISS, A.B., LL.D.  
% Miss Dorothy Snow, 2700 Que St., Georgetown, Washington, D. C.

WILLIAM TUDOR GARDINER, A.B., LL.D. 1 Court St., Boston

HENRY CABOT LODGE, JR., A.B., LL.D.  
United States Senate, Washington, D. C.

### 1946

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69 Rockledge Rd., Bronxville, N. Y.

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204 Dabney Hall, Pasadena, Cal.

PERRY DUNLAP SMITH, A.B., Litt.D.  
347 Forest Ave., Winnetka, Ill.

ROY EDWARD LARSEN, A.B.

Time and Life Bldg., Rockefeller Plaza, N. Y.

#### 1947

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1 Federal St., Boston

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31 Nassau St., New York, N. Y.

WINTHROP WILLIAMS ALDRICH, A.B., LL.B., LL.D.

18 Pine St., New York, N. Y.

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Office of Production Management, Washington, D. C.

ROBERT FISKE BRADFORD, A.B., LL.B.

District Attorney's Office, Court House, Cambridge

#### 1948

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Brinton Hill, Falls Village, Conn.

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Box 558, Bar Harbor, Maine

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121 East 35th St., New York, N. Y.

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30 State St., Boston

#### 1949

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U. S. District Court, Boston

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25 Massachusetts Hall, Cambridge

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Office, 5 University Hall, Cambridge.

*Acting Dean:* EDWARD G. HUBER, A.B., M.D., Dr.P.H.

Office, School of Public Health, 55 Shattuck Street, Boston.

*Secretary:* MRS. MARGARET G. BARNABY, A.B.

Office, School of Public Health, 55 Shattuck Street, Boston.

*Physician to Students:* LEWIS W. KANE, M.D.

Office, Room 103, Building A, Harvard Medical School, 25 Shattuck Street, Boston.

## ADMINISTRATIVE BOARD

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DONALD L. AUGUSTINE, Chairman; EDWARD G. HUBER, PHILIP DRINKER.

## COMMITTEE ON EXAMINATIONS

EDWIN B. WILSON, Chairman; EDWARD G. HUBER, GORDON M. FAIR, J. HOWARD MUELLER.

# THE HARVARD SCHOOL OF PUBLIC HEALTH

## HISTORICAL STATEMENT

THE HARVARD SCHOOL OF PUBLIC HEALTH first gave instruction to students in the academic year 1922-23. For many years activity in public health had been rapidly increasing in Harvard University. The influence of the University upon public health, through the pioneering and long-continued efforts of Dr. Henry P. Walcott, for many years senior member of the Harvard Corporation, was important and far-reaching. Courses in the various departments had been gradually developed to meet the need for men trained to conserve public health. The field of public health is so broad that it is not strange that this School did not find its origin in any one department. The records show certain important steps in what has been essentially a gradual development. In 1909 a department of Preventive Medicine and Hygiene was established in the Medical School. The degree of Doctor of Public Health was first conferred in 1911. In this same year a department of Sanitary Engineering was inaugurated in the Engineering School. In 1913 a department of Tropical Medicine was formed. In 1918 a Division of Industrial Hygiene, with clinical and laboratory facilities, was organized in the Harvard Medical School.

Besides these activities which were directly concerned with the training of men for public health work, research was being carried on in the regular departments of the Harvard Medical School in Bacteriology, Pathology, Parasitology, Physiology, Biochemistry, and others, which had a less direct but very real bearing on the development of the science of public health. On analysis it appeared that there were many activities under the various faculties of Harvard University, besides those of Medicine and Engineering, that had some bearing on public health. Under the Faculty of Arts and Sciences there were many courses, such as those in Physics, Chemistry, Zoölogy, Social Ethics, etc., which formed in certain cases important parts of the training of individuals for work in public health. In addition, there had been established in 1914, under the Faculty of Arts and Sciences, a département of Hygiene, which undertook the supervision of the health of the students in its broadest aspect. This department had collected much data of considerable value in public health.

In 1913 the "Harvard-Technology" School of Public Health was organized. It was under the joint management of Harvard University

and the Massachusetts Institute of Technology. This School continued to operate until the fall of 1922, when it was superseded by the new Harvard School of Public Health which was made possible by a generous endowment for this purpose from the Rockefeller Foundation. This endowment was known as the Henry P. Walcott Fund of Harvard University.

This gift made it possible: first, to correlate and to enlarge the various departments already existing in Harvard University, such as Preventive Medicine and Hygiene, Bacteriology, Sanitary Engineering, Tropical Medicine, Parasitology, and Industrial Hygiene; second, to create a department of Vital Statistics and to develop new special fields of instruction, such as Public Health Administration, Child Hygiene, Mental Hygiene, Communicable Diseases, and Ventilation and Illumination; and lastly, to purchase a building, standing on land adjacent to that occupied by the Medical School, in which to house the administration and the various groups concerned with the work of public health.

## GENERAL STATEMENT

### PURPOSE

The practice of public health is founded upon a broad knowledge of public health administration, epidemiology, sanitation and vital statistics. All other subjects constitute specialities within these four fields. It is the object of the School to provide the scientific groundwork which underlies efficient health administration, together with some personal acquaintance of modern public health procedures of the best type. To this end lectures, field surveys, hospital exercises and laboratory work are offered by members of the Faculty and by special instructors actively engaged in public health work. Students may thus prepare themselves for careers in teaching, administrative, field or laboratory positions, while special opportunity is offered to those who desire to contribute to knowledge through research or field investigations.

### FACILITIES

The School of Public Health is located at 55 Shattuck Street, Boston, in close proximity to the Peter Bent Brigham Hospital, the Children's Hospital, and the Lying-in Hospital. The Antitoxin and Vaccine Laboratory of the Massachusetts Department of Public Health is within a comparatively short distance of the School. The Boston Psychopathic Hospital is also within a few blocks. Thus the School of Public Health, though a definite entity, is an integral part of a great medical center with splendid facilities for development of the teaching of the theory and



practice of public health. Certain members of the Faculty of the School are also members of the Faculty of Medicine, and the Library, laboratory facilities and hospitals are utilized by both Schools to great mutual advantage. In Cambridge the graduate departments of the University offer opportunities for work in certain fields of special interest to public health students. For example, students may elect courses in sociology, business administration, the theory of government, common law, sanitary engineering and other subjects.

Several types of well organized public health activities lie within a short distance of the School. Close affiliation is maintained between the School and the State Department of Public Health, thus assuring students an opportunity not only to observe but actually to participate under competent direction in state health department activities. The Health Department of the City of Newton, whose Director of Health is on the teaching staff of the School, has been developed as a special training ground for students of local public health administration in all its phases.

Hospitals and clinics affiliated with the School of Public Health offer facilities for training in child hygiene, tuberculosis control, treatment of contagious diseases of childhood, care of mental defectives, rehabilitation of crippled children, correction of dental defects, and other types of activity which relate directly to the promotion of health and social welfare. Opportunity is also offered for training in hospital administration under competent direction.

Boston being the center of a great industrial metropolitan area, students have opportunity to observe at first hand all the public health problems that large industrial populations must face, while the medical and technical personnel of selected industrial establishments offer training in industrial hygiene.

## REQUIREMENTS FOR ADMISSION AND FOR DEGREES

Applicants for admission to the School must satisfy the Committee on Admissions of their academic fitness. The record of courses completed as described in the application for admission is not in itself sufficient evidence of the fitness of a prospective candidate. The Committee may require additional evidence of present ability to utilize the training received and to profit by the courses administered by the School. The right is reserved to reject any applicant.

All inquiries and communications regarding admission should be addressed to the Secretary, Harvard School of Public Health, 55 Shattuck Street, Boston, Massachusetts.



### Master of Public Health

Although the course leading to the degree of Master of Public Health is designed primarily for graduates in medicine, it is also appropriate for other public health workers who have received adequate training or experience. Each applicant must convince the Committee on Admissions that he is prepared to complete the course with distinction.

Applicants for this degree must belong to one of the following categories:

1. Graduates of schools of medicine, veterinary medicine or dentistry.
2. Graduates in arts or sciences with adequate training in the basic medical sciences.
3. Graduates in arts or sciences with specialized training and experience in an important phase of public health work.

To be eligible for this degree at least one academic year must be spent *in residence* at the University during which the student is required to elect a sufficient number of courses to make a total of at least twenty credit units each semester. Due consideration will be given to the individual need of each candidate, but the program he desires to elect must meet the approval of the Administrative Board. The courses offered and the credit units for each course are given below.

#### *First Semester*

	Credit Units
Public Health Practice A	4
Vital Statistics A1	5
Sanitation A	4
Nutrition A	3
Bacteriology A	4
Parasitology and Tropical Medicine A	4
Veneral Disease Control A1	1.5
Industrial Hygiene B (Laboratory)	3
Term Paper	1.5

#### *Second Semester*

Child Health A	4
Communicable Diseases A	3
Ecology A	3
Epidemiology A	4
Vital Statistics A2	4
Industrial Hygiene A	4
Veneral Disease Control A2	2

Medical Administration A	2
Public Health Practice B	2
Child Health B	1
Child Health C	2
Industrial Hygiene B (Laboratory)	2
Nutrition B	To be arranged
Sanitation B	To be arranged
Hospital Administration A and B	To be arranged

Candidates for the degree of Master of Public Health are required to prepare a *term paper* in their major field of interest. This paper shall not be more than approximately forty-five hundred words in length. The subject is to be selected before the end of the second month of the academic year, with the help of the department in which the student's special field of interest lies, and the completed paper is to be handed in before the end of the sixth month.

At the end of the academic year a *comprehensive examination* is given which is designed to test the student's knowledge and judgment, and his ability to coördinate the various specialties in the public health field, with special reference to administration, epidemiology, sanitation and statistics.

To be recommended for the degree of Master of Public Health the candidate is required to pass at least two-thirds of the courses in his program, and the comprehensive examination, with distinction.

### Doctor of Public Health

The degree of Doctor of Public Health is granted on evidence of a thesis which displays independent ability and originality in a special field. At least two years of work in residence at the School, including one year devoted to the courses forming the curriculum for the degree of Master of Public Health and the other to research are necessary to obtain the degree of Doctor of Public Health. Students who have completed the requirements for the Master of Public Health degree elsewhere may, on passing the comprehensive examination with honors, be provisionally accepted as candidates for this degree, final acceptance depending upon the character of the work done. Such students may complete the required work in one year of resident research, although no assurance can be given of this, since the preparation of an acceptable thesis may consume more time than this.

Candidates for this degree must be graduates of an approved medical school and must possess the degree of Master of Public Health or its equivalent. In rare instances, and upon the approval of the Faculty of

Public Health, students who do not have a medical degree, but who possess exceptional basic training and experience in the field of public health may become candidates for this degree provided that they meet the general requirements for this degree.

Upon admission to candidacy the student must present a plan of independent investigation to the Committee on Examinations. The results of this investigation will form the basis of the thesis which must be presented as one of the final requirements for graduation. Two copies of the thesis must be deposited in the Dean's Office six weeks before the date on which the degree is to be conferred. Each copy must be accompanied by a summary not exceeding 1200 words in length, which shall indicate clearly the purposes, methods and results of the investigation. After acceptance of the thesis, the candidate will be called before the Faculty for an oral examination upon the thesis and upon those public health subjects to which the thesis is related.

### Certificate in Public Health

Occasionally students may wish to confine their studies to some particular field of public health, such as bacteriology, vital statistics and nutrition. Such students must secure the approval of the head of the department in which they wish to specialize. If they do honor work, they may then be granted the Certificate in Public Health in that specialty as evidence of their accomplishment. Ordinarily, students are encouraged to take a sufficiently broad program to enable them to pass with distinction the comprehensive examination and thus to become eligible for the degree of Master of Public Health.

### Master of Education in the Field of Public Health Education

The degree program in this field is one year's work, divided equally between courses in the School of Public Health and the School of Education. The standard program would be:

- I. In the School of Public Health (where 40 units constitutes a year's work) 20 units:

The Principles of Sanitation A .....	4 units
Nutrition A .....	3
Epidemiology A .....	4
Public Health Practice A .....	4
Public Health Practice B .....	2
Communicable Diseases A .....	3

## II. In the School of Education (and Arts and Sciences) 16 units:

Introductory courses (2).....	5 units
Ed. Admin. 2 (Supervision) .....	3
Ed. Admin. 1 .....	2
Ed. Psychology 2 .....	2
Sociology 7a or 19 .....	4

This program is designed for experienced teachers. Courses in Comparative Anatomy and in the principles of Physiology and Zoölogy are prerequisite to the courses in public health.

The degree is open also to experienced workers in the field of public health; such persons would presumably have anticipated some of the work in public health, and a correspondingly greater part of their work would be in the School of Education. For such persons, nine units of introductory work in education would be prerequisite to completing the program.

### Special Students

Those who do not meet the academic requirements for admission as candidates for degrees may be admitted to certain courses and programs of study at the discretion of the head of each department, and subject to conditions specified by him with the approval of the Committee on Admissions.

Students unable to spend a full academic year at the School may come for individual courses if their preparation for the course is approved by the head of the department.

As the capacity of the School is limited, the number of special students who can be admitted is dependent on the number of applicants who are accepted for the regular course. Therefore, it is not possible to know until early in the fall how many special students can be received.

### Master or Doctor of Science in Engineering

Graduates of engineering colleges or scientific schools of recognized standing who are interested in the sanitary engineering or industrial hygiene aspects of public health may be admitted to the Graduate School of Engineering as candidates for the degree of Master or Doctor of Science.

For further information write The Secretary, Graduate School of Engineering, Pierce Hall, Cambridge, Massachusetts.

### Doctor of Philosophy in Hygiene

Information relative to prerequisites, courses, fees, etc., may be secured from the Secretary, Division of Medical Sciences, Harvard Medical School, 25 Shattuck Street, Boston, Massachusetts.

## FEES AND EXPENSES

*The fees are:* For Medical and Infirmary Fee, \$10 for each term; for instruction (including laboratory charges except breakage, damage, and loss of apparatus), \$200 for each term. Students desiring to take single courses may do so at the rate of \$65 for one full course, payable in advance.

Term bills will be issued and payable as follows:

	<i>Issued</i>	<i>Payable</i>	
<i>Winter Term</i>	At Registration		{ $\frac{1}{2}$ of the tuition for the term Medical and Infirmary Fee
	Dec. 15	Jan. 5	{ $\frac{1}{2}$ of the tuition for the term Board Room rent for the term Miscellaneous charges
<i>Spring Term</i>	Feb. 15	March 8	{ $\frac{1}{2}$ of the tuition for the term Medical and Infirmary Fee Board Miscellaneous charges
	At Registration *		{ $\frac{1}{2}$ of the tuition for the term Medical and Infirmary Fee
	April 15	May 3	{ $\frac{1}{2}$ of the tuition for the term Board Room rent for the term Miscellaneous charges
	1 week before Commencement		{ Board Miscellaneous charges

The date of Commencement, 1944, cannot be determined in advance but students who are candidates for degrees must pay all dues to the University at least one day before the day upon which the degrees are to be voted. A student who leaves during the year is charged to the end of the tuition period in which he leaves provided before that time he gives the Dean notice in writing of his withdrawal; otherwise he is charged to the end of the tuition period in which such notice is given.

A student who leaves the University for any reason whatever must pay all charges against him immediately upon receipt of a bill from the Bursar.

A student whose indebtedness to the University remains unpaid on the date fixed for payment is deprived of the privileges of the University.

\* Applies to entering students only.

Reinstatement is obtained only by consent of the Dean of the department in which the student is enrolled after payment of all indebtedness and a late payment fee of \$10.

Every student will be held responsible for the payment of fees until he has notified the Dean in writing of his intention to withdraw from the School.

All term bills will be sent to the student at his local address unless the Bursar is requested in writing to send them elsewhere.

The following regulations applicable to students who leave the University by reason of the present national emergency have been adopted:

1. A student who leaves the University for military service in the national emergency, or for service accepted by the University as auxiliary thereto, under conditions which make it impossible for him to complete his work for the term will be required to pay toward his fees for the period in which he leaves *pro rata* to the time of his departure.

2. A student who leaves the University for military or such auxiliary service in the national emergency and is eligible to return within a period of three years to complete his work may reënter the University in any term and be credited with any unrefunded fees paid in the year in which he left on account of a period for which he did not receive academic credit.

## BONDS

Upon entrance to the School every student is required to file with the Bursar a bond in the sum of \$500 as security for payment of University bills. The bond must be signed by two bondsmen, both of whom must be citizens of the United States, or by a surety company duly qualified to do business in Massachusetts. No officer or student of the University will be accepted as a bondsman and in no case will more than one parent be accepted. In lieu of the bond a student may deposit with the Bursar five hundred dollars in United States government coupon bonds, or five hundred dollars in cash, which will bear no interest. Blank forms of bonds may be obtained at the Dean's Office or from the Bursar.

## STUDENT HEALTH SERVICE

Each full-time student will be charged annually a Medical and Infirmary fee of \$20. Part-time students working at the rate of substantially half-time or less and living at home may be exempted from this requirement upon recommendation of the Dean.

In return for payment of this fee the School provides a physician to students who will give medical advice and treatment without charge during the school year. He is available for consultation by students at



his office in Building A, Harvard Medical School, from 8 to 9 o'clock, and from 4.00 to 5.30 o'clock daily except Saturdays and holidays. He may also be seen at other times by appointment and at any time in case of emergency. The fee also covers, when necessary, board and ordinary nursing care, for not more than a total of two weeks, in the Stillman Infirmary or in one of the teaching hospitals of the Medical School. Medical attendance, private rooms, and special nursing care will be an extra charge. In addition, each student is entitled to all the medical and other services that have been organized under the Student Health Service plan of the University.

Any illness necessitating absence from work should be reported to the Student Health Office by the student, or by an attending physician.

Under the auspices of the Department of Medicine of the Harvard Medical School each student will be required to undergo a complete medical examination shortly after admission to the School. Evidence of having been satisfactorily vaccinated is required for entrance to Harvard University and a form of certification for this purpose is sent to each student who is accepted for admission. For information regarding the Stillman Infirmary see the University Catalogue.

## LIBRARIES

The joint Library of the School of Public Health and the Harvard Medical School is on the second floor of the Administration Building of the Medical School. It is open in term time from 9 A.M. until 10 P.M. on week days, from 9 A.M. until 5 P.M. on Saturdays, and from 2 P.M. until 6 P.M. on Sundays. During the summer vacation it is open week days from 9 A.M. until 10 P.M. and on Saturdays from 9 A.M. until 12 M., but is closed on Sundays throughout the day. There are at present 75,500 volumes, 192,000 pamphlets, and 607 current periodicals on file in this library.

Students also have the privilege of using the College Library in Cambridge, as well as the various departmental libraries belonging to the University, in all of which there are 3,945,318 volumes and pamphlets.

The Boston Public Library is open to students who are residents of Boston, and students not residents of Boston who have filed a bond at the Bursar's Office.

The Boston Medical Library, No. 8 The Fenway, contains about 188,000 bound volumes, 134,000 pamphlets, and 620 current periodicals on file. For those who desire to consult medical literature, this very valuable library is open on week days from 9.00 A.M. to 5.00 P.M., and on Mondays and Wednesdays until 9 P.M., from the middle of October to the end of May.



## HARVARD INFANTILE PARALYSIS COMMISSION

The Commission was appointed by the Corporation September 25, 1916. Its activities include the treatment of patients with infantile paralysis and studies on the cause, prevention, and management of the disease.

The members of the Commission are: FRANK R. OBER, M.D., *Chairman*, EDWARD G. HUBER, M.D., C. SIDNEY BURWELL, M.D., CECIL K. DRINKER, M.D., ALTON S. POPE, M.D., GEORGE B. WISLOCKI, M.D., JOHN F. ENDERS, Ph.D., RICHARD M. SMITH, M.D., HENRY R. VIETS, M.D., RENÉ J. DUBOS, S.D.

Director of Clinics, William T. Green, M.D.

Director of Field and Laboratory Studies, W. Lloyd Aycock, M.D.

## ANNOUNCEMENT OF COURSES

## BACTERIOLOGY

J. HOWARD MUELLER, S.M., Ph.D., A.M. (hon.), *Professor of Bacteriology and Immunology.*

JOHN F. ENDERS, A.M., Ph.D., *Associate Professor of Bacteriology and Immunology.*

LEROY D. FOTHERGILL, A.B., M.D., *Silas Arnold Houghton Assistant Professor of Bacteriology and Immunology.* [Absent for war service.]

ROBERT N. NYE, A.B., M.D., *Assistant Professor of Bacteriology and Immunology.*

WILLIAM A. HINTON, S.B., M.D., *Instructor in Bacteriology and Immunology and Chief of Wassermann Laboratory, Massachusetts Department of Public Health.*

LEAH R. SEIDMAN, A.B., Sc.D., *Instructor in Bacteriology and Immunology.*

MORRIS J. PICKETT, A.B., Ph.D., *Assistant in Bacteriology and Immunology.*

The Department of Bacteriology and Immunology of the Harvard School of Public Health, in addition to a fundamental course in bacteriology, offers a voluntary course in immunology which consists of seminars and laboratory exercises.

Provision is made for individual work upon problems of serum production, standardization, etc., at the Antitoxin and Vaccine Laboratory of the Massachusetts Department of Public Health.

Advanced work and opportunities for investigation are available, admission to this type of work depending upon the fitness of the applicant.

## Bacteriology A

Lectures and laboratory work. *Mondays, Wednesdays, Fridays, 2-5 P.M. and Saturdays, 10-11 A.M., first and second months.*

Credit 4 units.

This course, designed for the student of public health, deals with the bacteriology of the pathogenic microorganisms in its applications to diagnosis, investigation and prevention of communicable disease.

Special emphasis will be placed on the practical laboratory aspects of

the diseases of particular importance from the standpoint of public health. To a certain extent, provision will be made for the special requirements of individual students. While the course will consist essentially in practical laboratory methods, it will be supplemented by suitable lectures on topics of general interest to public health students.

### **Bacteriology 32**

[Seminars and laboratory work. *Tuesdays, 2-5 P.M., and Thursdays, 2.30-5.30 P.M., second and third months.*] Omitted in 1943-44.

Credit 2 units.

Immunity. — The course will consist of seminars in which the basis of discussion will consist of some of the most important older and more recent immunological literature. The student will be expected to take an active part in reviewing this material. In the laboratory exercises, which will occupy two-thirds of the period, the student will carry out the fundamental immunological procedures such as the preparation of antisera and the evaluation of such sera by means of a variety of immunological reactions.

### **Applied Immunology 33a**

[Lectures and laboratory work. *Mondays, Wednesdays, and Fridays, 2-5 P.M., at State Antitoxin Laboratory, during eighth month.* Dr. EDSALL. For details see page 24.]

This curriculum of bacteriological courses taken in conjunction with epidemiology, vital statistics, sanitation and medical zoölogy, represents a thorough training in that branch of public health which deals with the communicable diseases.

### **Bacteriology 34**

[Viruses. *Tuesdays, 2-5 P.M. and Thursdays, 2.30-5 P.M., February 2 to 25.* Dr. ENDERS.] Omitted in 1943-44.

Credit 1 unit.

This course will consist of eight exercises in which an opportunity will be offered to acquire some of the fundamental techniques employed in the study of virus agents pathogenic for man and the lower animals. In addition there will be presented reviews of the recent, significant contributions to knowledge of these agents.

### **Serological Diagnosis of Syphilis**

Time and credit to be arranged. Dr. HINTON.

A short course which deals with the details of methods of the serological diagnosis of syphilis.

## Research in Bacteriology

Special advanced courses will be offered in Immunology and the Technique of Serum Study, and will be open to a limited number of students.

Opportunity will be given for properly qualified students to pursue research work along varied lines.

## APPLIED IMMUNOLOGY — SERUMS AND VACCINES

ELLIOTT S. A. ROBINSON, M.D., Ph.D., *Assistant Professor of Applied Immunology and Director of the Division of Biologic Laboratories, State Department of Public Health.* [Absent for war service.]

GEOFFREY EDSALL, M.D., *Instructor in Applied Immunology and Acting Director of the Division of Biologic Laboratories, State Department of Public Health.*

### Applied Immunology 33a

[Lectures and laboratory work. *Mondays, Wednesdays, and Fridays, 2-5 P.M., at State Antitoxin Laboratory, during eighth month.* Dr. EDSALL.] Omitted in 1943-44.

Credit 1 unit.

In this course the application of immunological theory to the prevention and treatment of disease, as evidenced in the manufacture of serums, vaccines, and related products, is developed by lectures, discussions, and laboratory demonstrations. The content of the course is dependent upon the training and interests of the students, and on the facilities available by reason of the present emergency.

Opportunities are also offered for study of and training in the manufacture of biologic products or for original work in problems related to these processes, at times to be arranged individually.

This course will be omitted in 1943-44 but arrangements for special work at the Antitoxin Laboratory will be made for those interested.

## COMPARATIVE PATHOLOGY AND TROPICAL MEDICINE

RENÉ J. DUBOS, S.B., Ph.D., S.D., *George Fabyan Professor of Comparative Pathology and Professor of Tropical Medicine.*

GEORGE C. SHATTUCK, M.D., A.M., *Clinical Professor of Tropical Medicine.*

DONALD L. AUGUSTINE, S.D., A.M. (hon.), *Associate Professor of Comparative Pathology and Tropical Medicine.*

JOSEPH C. BEQUAERT, Ph.D., *Assistant Professor of Comparative Pathology and Tropical Medicine.*

HENRY P. TREFFERS, A.B., Ph.D., *Assistant Professor of Comparative Pathology and Biological Chemistry.*

QUENTIN M. GEIMAN, S.M., Ph.D., *Instructor in Comparative Pathology and Tropical Medicine.*

DAVID WEINMAN, M.D., *Instructor in Comparative Pathology and Tropical Medicine.*

SHIH L. CHANG, M.D., Dr.P.H., *Research Fellow in Comparative Pathology and Tropical Medicine.*

HENRY D. HOBERMAN, A.B., Ph.D., *Special Research Assistant.*

CARL A. BRANDLY, S.M., D.V.M., *Special Research Associate.*

### Parasitology and Tropical Medicine A

Lectures and laboratory work. *Mondays, Wednesdays, Fridays, 2-5 P.M., third and fourth months and Saturdays, 10 A.M.-12.30 P.M., January 8, 15.* Dr. DUBOS and associates.

Credit 4 units.

The course consists of lectures, laboratory exercises and demonstrations dealing with helminths, protozoa and arthropods of importance to public health, with the object of training the student in the identification of the more important parasites, and study of their life histories with reference to prevention and control. The agency of insects and other arthropods in the transmission of disease will receive special consideration.

Students with special backgrounds and interests may undertake special or advanced work along with, or in lieu of, the regular course. Investigations of members of the Department have provided material, including cultures and other living material, in a number of fields. Among the subjects available for special work are: trichinosis, with special reference to skin and precipitin tests; hookworms; ascariasis; amoebiasis, methods of diagnosis and cultivation; trypanosomiasis; leishmaniasis, bartonellosis and rickettsial diseases; rearing and dissection of various insects such as mosquitoes, bedbugs, fleas, sandflies; identification of mosquitoes, *et cetera*. A number of exercises will be devoted to the public health aspects of certain of the more important tropical diseases.

### Advanced Work in Medical Zoölogy and Tropical Medicine

Advanced work and research in protozoölogy, helminthology, and medical entomology may be arranged for qualified students.

Special work on problems relating to tropical or exotic diseases may be arranged for qualified students and opportunities are at times afforded for investigators engaged on special problems to work in laboratories or hospitals situated within the tropics.

### COMMUNICABLE DISEASES

RICHARD M. SMITH, A.B., M.D., S.D., *Thomas Morgan Rotch Professor of Pediatrics.*

CONRAD WESSELHOEFT, M.D., *Clinical Professor of Infectious Diseases.*

CHARLES A. JANEWAY, M.D., *Assistant Professor of Pediatrics.*

EDWIN H. PLACE, M.D., *Lecturer on Communicable Diseases.*

R. CANNON ELEY, M.D., *Associate in Pediatrics and Communicable Diseases.* [Absent for war service.]

CHARLES F. WALCOTT, A.B., M.D., *Assistant in Infectious Diseases.*

Teaching in Communicable Diseases is given in the Haynes Memorial Hospital for Contagious Diseases and in the Isolation wards of the Children's Hospital.

#### Communicable Diseases A

Lectures. *Tuesdays and Fridays, 9-10 A.M., fifth, sixth, and seventh months.* Clinics. *Wednesdays, 3-5 P.M., fifth, sixth, and seventh months.* Dr. WESSELHOEFT and associates.

Credit 3 units.

This course consists of lectures, demonstrations, clinics, and conferences on the care and management of patients with communicable diseases, with special consideration of problems which are solved jointly by the public health official and the practicing physician.

#### Research in Communicable Diseases

Opportunity is offered to qualified students to pursue research work in communicable disease problems in the Department of Communicable Diseases or in conjunction with the Department of Bacteriology and Immunology.



## EPIDEMIOLOGY

JOHN E. GORDON, Ph.D., M.D., A.M. (hon.), *Professor of Preventive Medicine and Epidemiology*. [Absent for war service.]

W. LLOYD AYCOCK, M.D., *Associate Professor of Preventive Medicine and Hygiene*.

### Epidemiology A

Lectures and laboratory work. *Mondays and Fridays, 11 A.M.-1½ M.; Wednesdays, 11 A.M.-12.30 P.M.; and Saturdays, 9-11 A.M.; second half-year*. Dr. GORDON, Dr. AYCOCK and associates.

Credit 4 units.

A laboratory, lecture and seminar course designed to give the principles, historic development and methods of epidemiology of the communicable diseases with their application to public health. The laboratory work illustrates field experience and field methods in the collection, analysis and interpretation of data on epidemic and endemic disease.

### Epidemiology B

[Advanced Epidemiology. *Thursdays, 9-11 A.M., fifth, sixth, and seventh months; Tuesdays, 2-5 P.M., and Thursdays, 9 A.M.-5 P.M. in the eighth month*. Drs. GORDON and AYCOCK.] Omitted in 1943-44.

Credit 2 units.

A conference, field and laboratory course based on studies of current outbreaks of communicable disease. Emphasis is given to investigative procedures and the evaluation of methods of control. Available to students with acceptable preparation.

### Epidemiology C

Properly qualified workers may be assigned problems in connection with the general program of field and laboratory investigation being pursued in the department, or may be aided in the development of their own problems. Dr. GORDON and Dr. AYCOCK.

## PUBLIC HEALTH PRACTICE

EDWARD G. HUBER, A.B., M.D., Dr.P.H., *Associate Professor of Public Health Practice and Acting Dean*.

C. WALTER CLARKE, A.M., M.D., *Clinical Professor of Public Health Practice*.



PAUL K. LOSCH, D.D.S., *Assistant Professor of Operative Dentistry and Instructor in Clinical Dentistry.*

SHIELDS WARREN, M.D., *Assistant Professor of Pathology.* [Absent for war service.]

VLADEO A. GETTING, A.B., M.D., Dr.P.H., *Lecturer on Public Health Practice and Commissioner of Public Health, Department of Public Health of Massachusetts.*

ALTON S. POPE, A.B., M.D., Dr.P.H., *Instructor in Public Health Practice and Deputy Commissioner, Department of Public Health of Massachusetts.*

ROY F. FEEMSTER, A.B., M.D., Dr.P.H., *Instructor in Public Health Practice and Director of the Division of Communicable Diseases, Department of Public Health of Massachusetts.*

HERBERT L. LOMBARD, A.B., M.D., M.P.H., *Instructor in Public Health Practice and Director, Division of Adult Hygiene, Department of Public Health of Massachusetts.*

NORBERT A. WILHELM, M.D., *Instructor in Public Health Practice and Superintendent, Peter Bent Brigham Hospital.*

ERNEST M. MORRIS, A.B., M.D., M.P.H., *Instructor in Public Health Practice and Director of Public Health, City of Newton, Massachusetts.*

JOHN B. HOZIER, S.B., M.D., M.P.H., *Instructor in Public Health Practice and Acting Director, Division of Genitoinfectious Diseases, Department of Public Health of Massachusetts.*

F. WILLIAM MARLOW, JR., S.B., M.D., *Instructor in Medicine.*

### Public Health Practice A

Lectures and seminars. *Tuesdays, Thursdays and Saturdays, 9-10 A.M., first half-year (except November 4 and 8); 2-3 P.M., November 4 and 8.* Dr. HUBER and associates.

Credit 4 units.

The aim of this course is to study organizational structure and the operation of administration as applied to the practice of public health. This subject is developed through a study of the principles of public administration, of organization, of personnel management, of public health law, of budgeting and of leadership. With the increasing complexity of government, the health commissioner devotes more and more of his time to administration in general, as distinguished from

technical administration in the specialty of public health. The health commissioner, therefore, should understand his relationship to other departments, divisions and bureaus of federal, state and municipal governments and to non-official agencies. These subjects receive full consideration in the lectures. In order to develop the specific duties of the administrator of a health department, studies will be made of typical problems which present themselves and of the best solutions to these problems. The purpose of this case history method of presentation is to demonstrate the application of the principles of public health to its practice.

### Public Health Practice B

Seminars, conferences and field studies. *Tuesdays, 2-4 P.M., fifth, sixth and seventh months; Thursdays, 9 A.M.-5 P.M. in the eighth month.* This course will not be given for less than ten students.

Credit 2 units, or according to amount of work done.

This course is supplementary to Public Health Practice A in that its subject matter consists chiefly of topics which relate to problems in technical administration in the public health field. The seminar members will be expected occasionally to lead discussions, as well as to participate when seminars are led by non-resident consultants who are leaders in their respective fields. The purpose of the seminars is the study of practical problems of organization and of administration of national, state, district and local health departments. Research into these problems is encouraged.

During the eighth month field exercises are conducted. These demonstrations are given by the Department of Public Health Practice with the active coöperation of the Massachusetts Department of Public Health, the Health Department of the City of Newton and other official and unofficial health agencies.

Students are given opportunities throughout the year to observe and study public health administration in all its aspects by visiting as frequently as is desired certain health departments at state, district, municipal and rural governmental levels.

### Research in Public Health Practice

Advanced students are offered the opportunity to undertake special studies in Public Health Practice. The student must have completed Vital Statistics A1 and be enrolled in Public Health Practice B and Epidemiology A before registering for this work.

### Education of the Public in Health

For public health workers who are interested in the field of health education, courses will be arranged after personal conference. Such candidates must be college graduates. For them, one or two years of special work will be arranged.

It is essential for the person going into the field of health education first to have a basic knowledge of anatomy, physiology, and the fundamental medical sciences. He must also know what public health is, what its aims are and what administrative measures are used. Equally essential is a knowledge of educational technique. To give the prospective health educator training in these subjects the Harvard School of Public Health and the Graduate School of Education offer a combined one- or two-year course to college graduates, each student to be assigned to work after an individual conference to determine his particular needs and taking into consideration his training and experience. Credit for previous training in public health and educational methods, or for experience therein, may be granted.

Such a student, after a conference to determine his individual requirements, would elect subjects from the following group.

#### *Harvard School of Public Health*

Public Health Practice A  
 Bacteriology A  
 Sanitation A  
 Nutrition A  
 Epidemiology A  
 Parasitology and Tropical Medicine A  
 Communicable Diseases A  
 Venereal Disease Control A1 and A2  
 Public Health Practice B  
 Medical Administration A

#### *Harvard Medical School*

Anatomy  
 Physiology

#### *Graduate School of Education*

Educational Psychology 1 or 1r  
 Educational Measurement 1 or 1r  
 Principles of Teaching 5  
 Philosophy of Education 1 or Comparative Education 1  
 Elementary Education 26  
 Secondary Education 1  
 Educational Administration 1 and/or 2

*Faculty of Arts and Sciences and Radcliffe College*

Comparative Anatomy and Evolution of Vertebrates  
Principles of Physiology

**Control of Cancer**

[*Mondays, Wednesdays, Fridays, 9-10 A.M., during eighth month.* Dr. WARREN.] Omitted in 1943-44.

Credit  $\frac{1}{2}$  unit.

The aim of this course is to describe the special control methods which are applicable. The subject is viewed from the standpoint of the administrator rather than from that of the epidemiologist or of the specialist. The course will not be given for less than ten students.

**Medical Administration A**

*Thursdays, 9-11 A.M., fifth, sixth and seventh months; Tuesdays, 2-5 P.M. during eighth month.* Dr. HUBER and associates.

Credit 2 units.

This course is offered in recognition of the growing tendency to make medical administration in general a function of the health department.

Public health administrators are being given increased responsibilities in hospital management and it is for this reason that the emphasis in this course is placed on the general principles of construction, organization and administration of hospitals. The greater part of the course is didactic in nature, but opportunities are afforded to visit different types of hospitals in Massachusetts.

Besides hospital administration this course undertakes to give instruction in clinic management, in hospital service plans, in methods of distributing the costs of medical care through the insurance device, and in home and office medical service such as is provided at the Boston Dispensary.

**Hospital Administration A**

Time and credit to be arranged. Dr. WILHELM.

For those students who desire special training in hospital administration arrangements are made for actual participation in administrative procedures at the Peter Bent Brigham Hospital.

**Hospital Administration B**

Time and credit to be arranged. Dr. HUBER and associates.

This course is designed for students whose major interest lies in this field and who wish to devote much more of their time to observation of,

and actual participation in, administrative procedures in the various hospitals in Massachusetts than is provided for in Hospital Administration A. Many types of hospitals and clinics are available for students, and the work may be done in either semester or throughout the year.

### VENEREAL DISEASE CONTROL

#### VENEREAL DISEASE CONTROL A1

Lectures and demonstrations. *Mondays, January 31, February 7, 14, 9-11 A.M.; Tuesdays, February 1, 8, 15, and Thursdays, February 3, 10, 2-4 P.M.; and Saturdays, February 5, 12, 10 A.M.-12 M.* Dr. CLARKE.

Credit 1½ units.

Lectures will be given during the first hour of each session, emphasizing syphilis, gonorrhea, etc., as communicable diseases. The second hour will be devoted to the showing of motion pictures, stereopticon slides, and demonstrations of clinic procedure.

#### VENEREAL DISEASE CONTROL A2

Lectures and seminars. *Mondays, Wednesdays and Fridays, and Thursday, June 1, 2-4 P.M., eighth month.* Dr. CLARKE.

Credit 2 units.

Lectures will be given during the first hour of each session covering epidemiology, case holding, health education and public health administration of venereal disease control programs. During the second hour problems, assigned early in the course to each student for further study and reporting, will be discussed in a seminar.

During or at the end of the course a one-week field trip to study effective venereal disease control programs in operation is available for any students interested in this aspect of the instruction.

### CLINICS

Clinical instruction in syphilis at the Peter Bent Brigham Hospital. *Wednesdays, 6-8 P.M., and Thursdays, 1-3.30 P.M.* Dr. MARLOW.

These clinics are available during the entire year to all public health students; those who are planning to do public health work in this field are expected to spend considerable time in them and to participate in the work.

Credit units according to amount of work done.

Clinical instruction in gonorrhea at the Peter Bent Brigham Hospital. *Mondays through Saturdays, 8.30-11.30 A.M.*

These clinics, while especially designed for students whose major

interest is the control of the venereal diseases, are also available to other students.

Credit units according to amount of work done.

Serological Diagnosis. Dr. HINTON. See page 23.

### FIELD WORK

Field work in the Bureau of Social Hygiene, City of New York Department of Health. *July, August and September.* Dr. CLARKE, with the assistance of officers of the New York City Department of Health, Bureau of Social Hygiene.

Here half time will be devoted to administration and half to active work in clinics, rotating in each case from post to post. Weekly conferences with Dr. CLARKE will be held in order to coördinate the various activities in which the students have participated.

### Dental Public Health Practice

Graduates in dentistry who are accepted as candidates for the degree of Master of Public Health are required to take the basic courses which are prescribed for that degree. They are assumed to have had adequate training and experience in all phases of clinical dentistry but as additional experience, opportunities are provided in the Forsyth Infirmary and in the Harvard School of Dental Medicine. This work is under the direction of Dr. LOSCH.

Opportunities for field work in public health dentistry are provided in the Massachusetts Department of Public Health and in the Health Department of the City of Newton.

### CHILD HYGIENE

RICHARD M. SMITH, A.B., M.D., S.D., *Thomas Morgan Rotch Professor of Pediatrics.*

HAROLD C. STUART, LITT.B., M.D., *Assistant Professor of Pediatrics and Child Hygiene.*

WILLIAM T. GREEN, A.M., M.D., *Assistant Professor of Orthopaedic Surgery.*

BERTHA S. BURKE, A.M., *Associate in Nutrition.*

STEWART H. CLIFFORD, M.D., *Instructor in Pediatrics and Child Hygiene.*

SAMUEL B. KIRKWOOD, A.B., M.D., *Instructor in Obstetrics and in Maternal Health.* [Absent for war service.]



### Child Health A

Lectures. *Mondays and Wednesdays, 9-10 A.M., Fridays, 10-11 A.M., second half-year.* Dr. SMITH, DR. STUART, and associates.

Credit 4 units.

This course presents in broad outline various subjects which have an important relation to child health. They are grouped under the following general divisions.

#### 1. — Maternal Hygiene, Obstetrical Care and Care of the Newborn

Lectures dealing with those aspects of maternal care which are of concern to the health officer and which require attention for the protection of the fetus as well as the mother.

#### 2. — Growth and Development

The lectures on Growth and Development consider not only normal occurrences, but the requirements for satisfactory progress, and the problems of health appraisal in childhood. An attempt is made in this division to cover the scientific foundations upon which activities in the field of child health should be constructed.

#### 3. — Morbidity and Mortality

Lectures on Morbidity and Mortality focus attention upon the chief conditions requiring preventive effort and the prevalence of various risks and handicaps.

#### 4. — Child Hygiene

These lectures deal with the methods and channels of applied child health activities, both public and private. The care and protection of the infant, the pre-school child and the school child are taken up successively in lectures and discussion periods. The formation of health habits in the general field of mental hygiene are included in these lectures.

During the year 1942-43 special lectures were given by the following:

Florence B. Hopkins, D.M.D., M.D.	Alfred H. Washburn, M.D.
T. Duckett Jones, M.D.	Mr. Theodore Lothrop
Florence L. McKay, M.D.	Douglas A. Thom, M.D.
Edgar C. Yerbury, M.D.	Mr. Cheney Jones
Ernest Morris, M.D., M.P.H.	



### Child Health B

Seminars and field work. *Thursdays, 2-4 P.M., fifth, sixth and seventh months.*

Credit 1 unit.

This course supplements the lectures in Maternal Hygiene and Obstetrical Care given in Child Health A. It presents in some detail both the clinical and the more purely administrative problems to be faced by the health officer in this field. Recent advances in obstetrics and treatment of common obstetrical difficulties together with problems of organization and administration are discussed.

Field work in maternal hygiene is offered at the South Boston Clinic of the Boston Lying-in Hospital for pre-natal and post-natal problems, at the Out-Patient Clinic of the Free Hospital for Women in Brookline for the gynecological aspects of maternal hygiene, and at the Boston Lying-in Hospital.

### Child Health C

Seminars, clinical and field work. *Mondays, 2.00-5.00 P.M., second half-year. Thursday, 9.00 A.M.-5.00 P.M., during eighth month.*

Credit 2 units.

The aim of this course is to give practical instruction in the conduct of various health activities. The schedule of activities will be arranged as far as possible to meet the particular needs of each student.

Through field exercises an additional opportunity is offered to study at first hand the work of the Division of Child Hygiene of the State Department of Public Health, the Infant and Pre-School Child Welfare Conferences of the Boston City Health Department, and the health program in the schools of the City of Newton. The care and protection of handicapped children is also demonstrated on visits to such institutions as the Florence Crittenton Home, the New England Home for Little Wanderers, and the Wrentham State School. The Infants' and Children's Hospital, the House of the Good Samaritan, and other hospitals offer clinics and ward rounds.

### PHYSIOLOGY

CECIL K. DRINKER, S.B., M.D., S.D., A.M. (hon.), *Professor of Physiology.*

MADELEINE F. WARREN, A.M., Ph.D., *Assistant Professor of Physiology.*

FRANK W MAURER, A.B., Ph.D., *Assistant Professor of Physiology.*

JANE D. MCCARRELL, A.M., Ph.D., *Instructor in Physiology.*

J. WILLIAM HEIM, S.M., Ph.D., *Assistant in Physiology.*

JYTTE M. MUUS, M.Sc., *Instructor in Physiology.*

### Ecology A

Lectures. *Mondays and Wednesdays, 10-11 A.M., second half-year.*  
Dr. DRINKER and associates.

Credit 3 units.

Ecology is that branch of biological science which deals with the relations of living organisms to their surroundings.

It is the effort of sanitary engineering to provide living and working conditions safe and tolerable for man all over the world and under many different circumstances. The human organism reacts characteristically to many changes in physical environment, to chemical changes in the atmosphere, and to alterations in food supply. In every instance large groups of people are involved and a reasonable knowledge of the principles of public health thus requires realization of the effects of the commoner environmental conditions met by man. These are heat, cold, humidity, dryness, alterations in barometric pressure, light, contamination of the atmosphere by smoke, dusts and chemicals, and changes in diet.

The course will consist of lectures, conferences and demonstrations covering the reaction caused by the varieties of human experience.

### Research in Physiology

Properly qualified students will be given opportunities to work in the laboratory provided they can spend at least six months of undivided time.

## BIOLOGICAL CHEMISTRY

### Division of Nutrition

A. BAIRD HASTINGS, Ph.D., A.M. (hon.), *Hamilton Kuhn Professor of Biological Chemistry.*

FREDRICK J. STARE, Ph.D., M.D., *Assistant Professor of Nutrition.*

BERTHA S. BURKE, A.M., *Associate in Nutrition.*

DAVID M. HEGSTED, S.M., Ph.D., *Associate in Nutrition.*

JOHN M. MCKIBBIN, S.M., Ph.D., *Instructor in Nutrition.*

### Nutrition A

Lectures. *Mondays, Wednesdays, and Fridays, 9-10 A.M., first, second and third months.* Dr. STARE and associates.

Credit 3 units.

The course deals with the fundamentals of the chemistry and physiology of nutrition and the practical application of these principles to the problems of human nutrition, especially in the field of public health.

Among the subjects discussed are energy metabolism; protein, mineral, and vitamin metabolism; methods for establishing the minimum and optimum nutritional requirements, together with the problems of meeting these requirements, especially for low income groups. Dietary requirements are considered in their relation to growth, development, pregnancy, lactation, and the formation and maintenance of dental structures. Methods of taking nutritional histories and the use of physical and chemical methods for evaluating the nutritional state of individuals or large groups are presented. The consequences are discussed of nutritional deficiencies and the relation of optimum nutrition to national health and economy. The place of the nutritionist in the public health program is considered and procedures are suggested for educational work. The nutritional problems of war and other emergencies are dealt with, and the relation of production, distribution and preparation to the best use of foods discussed.

### Nutrition B

Time and credit to be arranged.

Facilities are available for advanced work in nutrition along the following lines: fundamental research in nutrition, applied nutrition in public health including procedures and techniques of nutritional surveys, applied nutrition in food management and service.

Prerequisite: Nutrition A or its equivalent. Admission limited and subject to the approval of the instructor. Dr. STARE and associates.

### Nutrition C

Journal Club in Nutrition. *Wednesdays, 4-5 P.M. throughout the year.*  
Credit to be arranged.

Brief discussions of current literature in fundamental and applied nutrition.

Prerequisite: Nutrition A or its equivalent. Admission limited and subject to the approval of the instructor. Dr. STARE and associates.

## PUBLIC HEALTH ENGINEERING

### Industrial Hygiene and Sanitary Engineering

PHILIP DRINKER, S.B., Ch.E., S.D. (hon.), A.M. (hon.), LL.D. (hon.),  
*Professor of Industrial Hygiene.*

- GORDON M. FAIR, S.M., *Abbot and James Lawrence Professor of Engineering and Gordon McKay Professor of Sanitary Engineering.*
- CONSTANTIN P. YAGLOU, B.A., S.B., M.M.E., *Associate Professor of Industrial Hygiene.*
- W. IRVING CLARK, A.B., M.D., *Clinical Professor of the Practice of Industrial Medicine.*
- MELVILLE C. WHIPPLE, A.M. (hon.), *Associate Professor of Sanitary Chemistry.*
- EDWARD W. MOORE, A.M., *Associate Professor of Sanitary Chemistry.*  
[Absent for war service.]
- CHARLES E. RENN, S.B., Ph.D., *Associate Professor of Sanitary Biology.*
- HAROLD A. THOMAS, JR., S.D., *Faculty Instructor in Sanitary Engineering.*
- LESLIE SILVERMAN, S.M., S.D., *Associate in Industrial Hygiene.*
- C. GUY LANE, A.B., M.D., *Clinical Professor of Dermatology.*
- ERICH LINDEMANN, Ph.D., M.D., *Associate in Psychiatry.*
- REUBEN Z. SCHULZ, A.M., M.D., *Instructor in Pathology.*
- CHARLES R. WILLIAMS, Ph.D., *Instructor in Industrial Hygiene.*
- THOMAS L. SHIPMAN, Ph.B., M.D., *Instructor in the Practice of Industrial Medicine.*
- RALPH W. MCKEE, A.B., S.M., Ph.D., *Instructor in Industrial Hygiene.*
- MANFRED BOWDITCH, A.B., *Instructor in Industrial Hygiene.*
- EMMA S. TOUSANT, LL.B., *Instructor in Workman's Compensation.*
- PERRY C. BAIRD, JR., A.B., M.D., *Lecturer on Industrial Hygiene.*
- HENRY C. MARBLE, A.B., M.D., *Assistant in Industrial Hygiene.*
- SHIH L. CHANG, M.D., Dr.P.H., *Research Fellow in Sanitary Engineering.*

### Industrial Hygiene A

Lectures and demonstrations. *Mondays, Wednesdays, and Fridays, 2-4 P.M., fifth, sixth and seventh months.* Field trips, *2-5 P.M., on eight days, dates to be announced.* Professor DRINKER and associates.

Credit 4 units.

A course of lectures, demonstrations, clinics, and inspections showing the relation of working conditions to health, with special reference to the cause, prevention and treatment of industrial disabilities.

### Industrial Hygiene B (Laboratory)

Laboratory work. *Tuesdays and Thursdays, 2-5 P.M., first month through seventh month.* Professor DRINKER and associates.

Credit 5 units.

Laboratory exercises in measuring airflow, in appraising air conditioning and ventilating installations, in determining and identifying atmospheric impurities, and in making toxicological analysis of importance in industrial medical problems.

### Heating and Ventilation (Engineering 140a)

[Lectures. *Mondays, Wednesdays, and Fridays, 9-10 A.M., first half-year, at Pierce Hall, Cambridge.* Professor C. H. BERRY.]

Omitted in 1943-44.

The theory and practice of heating and ventilating. For engineers.

### Air Conditioning (Engineering 140b)

Lectures. *Mondays, Wednesdays, and Fridays, 9-10 A.M., second half-year, at Pierce Hall, Cambridge.* Assoc. Professor YAGLOU.

Theory and practice of air conditioning. For engineers.

### Research in Industrial Hygiene, Heating and Ventilating, and Air Conditioning

A limited number of qualified students will be given an opportunity to do research work in these general fields.

### The Principles of Sanitation A

Lectures and demonstrations. *Tuesdays and Thursdays, 10 A.M.-12 M., first half-year; Thursdays, 9 A.M.-12 M., November 4 and 8.* Professor FAIR and associates.

Credit 4 units.

A course of lectures, demonstrations and inspections arranged especially for students in the School of Public Health. The following topics will be studied: (a) Water Supply — collection, purification and distribution; (b) Sewerage — collection, treatment and disposal; (c) Analysis of Water and Sewage — physical, chemical and biological; (d) Housing, City Planning and Zoning; (e) Rural Sanitation; (f) Biological Control — insects and rodents; (g) Food Sanitation — production, preservation, distribution and preparation; (h) Milk Sanitation; (i) Shellfish Sanitation; (j) Garbage and Refuse — collection and disposal; (k) Sanitation of Schools, Camps and Bathing Places.

### Sanitation B (Laboratory)

Laboratory and field work. Professor FAIR and Dr. THOMAS.

Time and credit to be arranged.

Examination of water and water supplies, milk and milk supplies, swimming pools, drainage systems, and food handling establishments. Experimental water purification and sewage treatment. Interpretation of engineering drawings of sanitary works.

The following courses of instruction offered in the Graduate School of Engineering are open to properly qualified students:

Engineering 400a. Water Supply and Sewerage. Professor FAIR.

Engineering 400b. Water Purification and Sewage Treatment Works. Professor FAIR.

Engineering 410a. Chemical Examination of Water and Sewage. Associate Professor WHIPPLE.

Engineering 411a. General Bacteriology. Associate Professor RENN.

[Engineering 411b. Sanitary Bacteriology.] Omitted in 1943-44.

Engineering 412a and 412b. Principles of Sanitary Chemistry. Dr. THOMAS.

Engineering 413a. Aquatic Biology. Associate Professor RENN.

Engineering 413b. Sanitary Parasitology. Associate Professor RENN.

Engineering 430b. Theory of Water Purification and Sewage Treatment. Dr. THOMAS.

Engineering 431b. Field and Laboratory Work in Water Purification and Sewage Treatment. Associate Professor WHIPPLE.

[Engineering 432b. Industrial Wastes and Municipal Refuse.] Omitted in 1943-44.

### VITAL STATISTICS

EDWIN B. WILSON, Ph.D., *Professor of Vital Statistics.*

CARL R. DOERING, A.B., M.D., S.D., *Assistant Professor of Vital Statistics.*

JANE WORCESTER, A.B., *Associate in Vital Statistics.*

#### Vital Statistics A1

Lectures and laboratory work. *Mondays, 10-11 A.M., first, second and third months; 11 A.M.-12 M., fourth month; Wednesdays and Fridays, 10 A.M.-12 M., first half-year.* Dr. DOERING.

Credit 5 units.

This introduction to Vital Statistics will consist of lectures, recitations,



and written work designed to familiarize the student with (1) the general facts already well established in demography, (2) the methods of graphical representation, (3) the calculation and use of averages and of measures of variation, and (4) the common types of rates, their adjustment and comparison.

### Vital Statistics A2

Lectures and laboratory work. *Tuesdays, 10 A.M.-12.30 P.M., Thursdays and Saturdays, 11 A.M.-12.30 P.M., fifth, sixth and seventh months; Tuesdays, 9 A.M.-12.30 P.M. and Saturdays, 11 A.M.-12.30 P.M., eighth month.* Professor WILSON.

Credit 4 units.

This course deals with the elements of the theory of statistical method with especial emphasis on those types of reasoning which are important for the proper planning and execution of field or laboratory investigations. It includes (1) the basic theory of probability, including errors of sampling, (2) association (Yule) and correlation, (3) arithmetic and geometric trends and, as time permits, various other topics such as life tables, rise and fall of epidemics, and the analysis of variation into component parts.

### Vital Statistics B

Professor WILSON or DR. DOERING

Credit according to amount of work done.

A reading course, in either or both half-years, without specific assignment of hours, for students who have a satisfactory knowledge of elementary statistics and wish individual supervision in their study of more advanced parts of the subject.

### Vital Statistics C

Professor WILSON or DR. DOERING

Credit according to amount of work done.

A research course, in either or both half-years, for students, whether specializing in Vital Statistics or in any other field of public health or the social disciplines, who desire to make statistical investigations of their own or to coöperate in the general statistical research of the Department.

### The Physician and the Community

[Lectures and discussions. *Mondays, Wednesdays and Fridays, 2-3 P.M., eighth month.* Dr. DOERING and others to be announced.] Omitted 1943-44.

Credit  $\frac{1}{2}$  unit.

After a few introductory lectures the course will consist of discussions of situations and conditions arising as a result of the social organization of the community. The health officer with a few years' experience has encountered problems based on the organization with which he is familiar. These problems are closely related to the health of the community and to the administration of a health program. In past years, students have requested discussions of social factors relating to the public health and this course is offered tentatively.

The discussion group will be limited to those who have had some experience in the public health field. Those who have not had such experience may attend the discussions as auditors. The selection of members of the class will be made by the Instructor after consultation with candidates.

## STUDENTS 1942-43

Beeton, Newton A., M.D.	Roanoke, Va.
Blackmer, Josephine B., PH.B.	Andover, Mass.
Fillmore, Anna M., S.B.	New York, N. Y.
Hampson, Nishan M., A.B., M.D.	Watertown, Mass.
Kraemer, Willis F., S.B., PH.M., M.D.	Denver, Colo.
McWhorter, Gwen, A.B., A.M.	Birmingham, Ala.
Mortara, Franco, M.D.	Boston, Mass.
Parmelee, Ruth A., A.B., M.D.	Washington, D. C.
Parra, Horacio, B.A., M.D.	Bogota, Colombia
Poole, Ivan H., A.B.	Wollaston, Mass.
Puffer, Ruth R., A.B.	Nashville, Tenn.
Reaud, Angel, M.D.	Havana, Cuba
Reinherz, Albert, ADJ.A.	Brighton, Mass.
Ross, Margaret B., M.D.	Rumford, R. I.
Santa-Maria, Julio V., M.D.	Santiago, Chile
Tully, Mildred R., S.B.	Salem, Mass.
Wallace, Helen M., A.B., M.D.	New Britain, Conn.
Weatherhead, Henry D., M.R.C.S., L.R.C.P.	St. Lucia, B. W. I.
Williams, John W., S.B., M.D.	West Newton, Mass.

## DEGREES

On June 11, 1942, Degrees were conferred as follows:

DOCTOR OF PUBLIC HEALTH, *Magna cum Laude*

Gaylord West Anderson, A.B. (*Dartmouth Coll.*) 1922, M.D. (*Harvard Univ.*) 1928.

*Special Field:* Epidemiology.

*Thesis:* Studies on Resistance to Scarlet Fever.

Norman Bartram Nelson, A.B. (*Univ. of California*) 1934, M.D. (*Univ. of Southern California*) 1939, M.P.H. (*Harvard Univ.*) 1941.

*Special Field:* Epidemiology.

*Thesis:* Statistical Epidemiologic Studies on Paralytic Poliomyelitis.

## DOCTOR OF PUBLIC HEALTH

Leonid Sergius Snegireff, M.D. (*Syracuse Univ.*) 1934, M.P.H. (*Harvard Univ.*) 1939.

*Special Field:* Public Health Administration.

*Thesis:* A State Cancer Control Program for New Jersey Based on Experience in Other States.

MASTER OF PUBLIC HEALTH, *Magna cum Laude*

Granville Wooten Larimore, S.B. (*Univ. of Florida*) 1931, M.D. (*Univ. of Chicago*) 1936.

MASTER OF PUBLIC HEALTH, *cum Laude*

Irving Jay Crain, S.B. (*Columbia Univ.*) 1933, M.D. (*Univ. of Chicago*) 1937.

Hernando Groot, S.B. (*National School of Commerce*) 1932, M.D. (*National Univ., Bogota, Colombia*) 1939.

Paul Wesley Kabler, A.B. (*Univ. of Kansas*) 1928, A.M. (*ibid.*) 1930, PH.D. (*ibid.*) 1933, M.B. (*Univ. of Minnesota*) 1938, M.D. (*ibid.*) 1938.

Grace Elizabeth Lutman, S.B. (*Univ. of Vermont*) 1935, M.D. (*ibid.*) 1938.

Albert Edward Raitt, S.B. (*Midland Coll.*) 1934, M.D. (*Univ. of Nebraska*) 1938.

Alexander Michael Riskin, A.B. (*Univ. of California*) 1928, M.D. (*Univ. of Chicago*) 1935.

## MASTER OF PUBLIC HEALTH

Francis Edgar Condit Ballard, S.B. (*Univ. of Washington*) 1935, M.D. (*Stanford Univ.*) 1940.

Henry Mohr Bockrath, M.D. (*Baylor Univ.*) 1937.

Powell Clayton Carrel, D.D.S. (*Kansas City-Western Dental Coll.*) 1934.

Edward Ernest Dart, A.B. (*Stanford Univ.*) 1934, M.D. (*ibid.*) 1940.

William Robert Duden, A.B. (*Univ. of Michigan*) 1932, M.D. (*Univ. of Rochester*) 1939.

John Thomas Foley, Jr., A.B. (*Boston Coll.*) 1930, M.D. (*Tufts Coll.*) 1934.

John Horace Fountain, S.B. (*Georgetown Univ.*) 1927, M.D. (*ibid.*) 1929.

Godofredo Roque Hebron, M.D. (*Univ. of Philippines*) 1937.

Richard Philip Jones, M.D.C.M. (*McGill Univ.*) 1930.

Raymond Francis Kaiser, M.D. (*Univ. of Colorado*) 1937.

Georgia Norris Krusich, M.D. (*Univ. of California*) 1924.

Romeo Henry Lewis, A.B. (*Univ. of New Mexico*) 1931, M.D. (*Howard Univ.*) 1940.

Janice Rafuse, S.B. (*Boston Univ.*) 1921, M.D. (*ibid.*) 1925.

Albert Ernest Small, A.B. 1896, M.D. 1900.

Mary Elizabeth Soules, A.B. (*Univ. of North Dakota*) 1931, S.B. (*ibid.*) 1932, M.D. (*Univ. of Louisville*) 1934.

Louis Spekter, S.B. (*Trinity Coll.*) 1929, M.D. (*Univ. of Rochester*) 1933.

James Harlan Steele, D.V.M. (*Michigan State Coll.*) 1941.

Philip Joseph Sullivan, D.M.D. 1941.

Yun-teh Tang, B.S. (*Yenching Univ.*) 1928, M.D. (*Peiping Union Medical Coll.*) 1932.

## TABULAR VIEW

	FIRST MONTH (November 1-27)	SECOND MONTH (November 29-January 1) Recess December 19-26
Monday	Nutrition A 9-10 A.M. Vital Statistics A1 10-11 A.M. Bacteriology A 2-5 P.M.	Nutrition A 9-10 A.M. Vital Statistics A1 10-11 A.M. Bacteriology A 2-5 P.M.
Tuesday	Public Health Practice A 9-10 A.M. Sanitation A 10 A.M.-12 M. Industrial Hygiene B 2-5 P.M.	Public Health Practice A 9-10 A.M. Sanitation A 10 A.M.-12 M. Industrial Hygiene B 2-5 P.M.
Wednesday	Nutrition A 9-10 A.M. Vital Statistics A1 10 A.M.- 12 M. Bacteriology A 2-5 P.M.	Nutrition A 9-10 A.M. Vital Statistics A1 10 A.M.- 12 M. Bacteriology A 2-5 P.M.
Thursday	Public Health Practice A 9-10 A.M. (2-3 P. M. Nov. 4 & 8) Sanitation A 10 A.M.-12 M. (9 A.M.-12 M. Nov. 4 & 8) Industrial Hygiene B 2-5 P.M.	Public Health Practice A 9-10 A.M. Sanitation A 10 A.M.-12 M.  Industrial Hygiene B 2-5 P.M.
Friday	Nutrition A 9-10 A.M. Vital Statistics A1 10 A.M.- 12 M. Bacteriology A 2-5 P.M.	Nutrition A 9-10 A.M. Vital Statistics A1 10 A.M.- 12 M. Bacteriology A 2-5 P.M.
Saturday	Public Health Practice A 9-10 A.M. Bacteriology A 10-11 A.M.	Public Health Practice A 9-10 A.M. Bacteriology A 10-11 A.M.



## TABULAR VIEW

THIRD MONTH (January 3-29)		FOURTH MONTH (January 31-February 26) Examinations February 23-26	
Monday	Nutrition A 9-10 A.M. Vital Statistics A1 10-11 A.M. Parasitology A 2-5 P.M.	Venereal Disease Control A1 9-11 A.M. (Jan. 31, Feb. 7, 14) Vital Statistics A1 11 A.M.- 12 M. Parasitology A 2-5 P.M.	
Tuesday	Public Health Practice A 9-10 A.M. Sanitation A 10 A.M.-12 M. Industrial Hygiene B 2-5 P.M.	Public Health Practice A 9-10 A.M. Sanitation A 10 A.M.-12 M. Industrial Hygiene B 2-5 P.M. Venereal Disease Control A1 2-4 P.M. (Feb. 1, 8, 15)	
Wednesday	Nutrition A 9-10 A.M. Vital Statistics A1 10 A.M.- 12 M. Parasitology A 2-5 P.M.	Vital Statistics A1 10 A.M.- 12 M. Parasitology A 2-5 P.M.	
Thursday	Public Health Practice A 9-10 A.M. Sanitation A 10 A.M.-12 M. Industrial Hygiene B 2-5 P.M.	Public Health Practice A 9-10 A.M. Sanitation A 10 A.M.-12 M. Industrial Hygiene B 2-5 P.M. Venereal Disease Control A1 2-4 P.M. (Feb. 3, 10)	
Friday	Nutrition A 9-10 A.M. Vital Statistics A1 10 A.M.- 12 M. Parasitology A 2-5 P.M.	Vital Statistics A1 10 A.M.- 12 M. Parasitology A 2-5 P.M.	
Saturday	Public Health Practice A 9-10 A.M. Parasitology A 10 A.M.- 12.30 P.M. (Jan. 8-15)	Public Health Practice A 9-10 A.M. Venereal Disease Control A1 10 A.M.-12 M. (Feb. 5, 12)	

## TABULAR VIEW

	FIFTH MONTH (March 6-April 1)	SIXTH MONTH (April 3-29)
Monday	Child Health A 9-10 A.M. Ecology A 10-11 A.M. Epidemiology A 11 A.M.- 12 M. Industrial Hygiene A 2-4 P.M. Child Health C 2-5 P.M.	Child Health A 9-10 A.M. Ecology A 10-11 A.M. Epidemiology A 11 A.M.- 12 M. Industrial Hygiene A 2-4 P.M. Child Health C 2-5 P.M.
Tuesday	Communicable Diseases A 9-10 A.M. Vital Statistics A2 10 A.M.- 12.30 P.M. Public Health Practice B 2-4 P.M. Industrial Hygiene B 2-5 P.M.	Communicable Diseases A 9-10 A.M. Vital Statistics A2 10 A.M.- 12.30 P.M. Public Health Practice B 2-4 P.M. Industrial Hygiene B 2-5 P.M.
Wednesday	Child Health A 9-10 A.M. Ecology A 10-11 A.M. Epidemiology A (Laboratory) 11 A.M.-12.30 P.M. Industrial Hygiene A 2-4 P.M. Communicable Diseases A (Clinic) 3-5 P.M.	Child Health A 9-10 A.M. Ecology A 10-11 A.M. Epidemiology A (Laboratory) 11 A.M.-12.30 P.M. Industrial Hygiene A 2-4 P.M. Communicable Diseases A (Clinic) 3-5 P.M.
Thursday	Medical Administration A 9-11 A.M. Vital Statistics A2 11 A.M.- 12.30 P.M. Child Health B 2-4 P.M. Industrial Hygiene B 2-5 P.M.	Medical Administration A 9-11 A.M. Vital Statistics A2 11 A.M.- 12.30 P.M. Child Health B 2-4 P.M. Industrial Hygiene B 2-5 P.M.
Friday	Communicable Diseases A 9-10 A.M. Child Health A 10-11 A.M. Epidemiology A 11 A.M.- 12 M. Industrial Hygiene A 2-4 P.M.	Communicable Diseases A 9-10 A.M. Child Health A 10-11 A.M. Epidemiology A 11 A.M.- 12 M. Industrial Hygiene A 2-4 P.M.
Saturday	Epidemiology A (Laboratory) 9-11 A.M. Vital Statistics A2 11 A.M.- 12.30 P.M.	Epidemiology A (Laboratory) 9-11 A.M. Vital Statistics A2 11 A.M.- 12.30 P.M.

## TABULAR VIEW

SEVENTH MONTH (May 1-27)		EIGHTH MONTH (May 29-June 24) Examinations June 19-24	
Monday	Child Health A 9-10 A.M. Ecology A 10-11 A.M. Epidemiology A 11 A.M.- 12 M. Industrial Hygiene A 2-4 P.M. Child Health C 2-5 P.M.	Child Health A 9-10 A.M. Ecology A 10-11 A.M. Epidemiology A 11 A.M.- 12 M. Venereal Disease Control A2 2-4 P.M. Child Health C 2-5 P.M.	
Tuesday	Communicable Diseases A 9-10 A.M. Vital Statistics A2 10 A.M.- 12.30 P.M. Public Health Practice B 2-4 P.M. Industrial Hygiene B 2-5 P.M.	Vital Statistics A2 9 A.M.- 12.30 P.M. Medical Administration A 2-5 P.M.	
Wednesday	Child Health A 9-10 A.M. Ecology A 10-11 A.M. Epidemiology A (Laboratory) 11 A.M.-12.30 P.M. Industrial Hygiene A 2-4 P.M. Communicable Diseases A (Clinic) 3-5 P.M.	Child Health A 9-10 A.M. Ecology A 10-11 A.M. Epidemiology A (Laboratory) 11 A.M.-12.30 P.M. Venereal Disease Control A2 2-4 P.M.	
Thursday	Medical Administration A 9-11 A.M. Vital Statistics A2 11 A.M.- 12.30 P.M. Child Health B 2-4 P.M. Industrial Hygiene B 2-5 P.M.	Public Health Practice B All Day Child Health C All Day Venereal Disease Control A2 2-4 P.M. (June 1)	
Friday	Communicable Diseases A 9-10 A.M. Child Health A 10-11 A.M. Epidemiology A 11 A.M.- 12 M. Industrial Hygiene A 2-4 P.M.	Child Health A 10-11 A.M. Epidemiology A 11 A.M.- 12 M. Venereal Disease Control A2 2-4 P.M.	
Saturday	Epidemiology A (Laboratory) 9-11 A.M. Vital Statistics A2 11 A.M.- 12.30 P.M.	Epidemiology A (Laboratory) 9-11 A.M. Vital Statistics A2 11 A.M.- 12.30 P.M.	











